

FY2021-2022 TAEP - Beef EPD & Accuracy Requirements by Breed

EPDs have changed for this application period and must be current as of October 1, 2021.

REQUIREMENTS – BULLS

1. **Test negative for BVD-PI** (test results required) – see veterinarian with BSE & 840 EID
2. **840 EID** – “840” are the first three digits (numeric code for “USA” – see vet at time of BSE, BVD-PI testing, and Trich testing)
3. **BSE** – must be performed by a licensed veterinarian within 90 days of purchase or reimbursement
4. **EPD and Accuracy requirements** – read below
5. **Receipt** – must have the following information:
 - seller name, address, and phone
 - bull ID, price, sale date, and buyer name

RECOMMENDED – BULLS

- **Trichomoniasis testing** – “Trich” is a venereal disease of cattle caused by the protozoan *Tritrichomonas foetus*, which is transmitted from cow to cow by infected bulls. **This disease reduces calf production by decreasing fertility and inducing abortions.** While heifers usually rid themselves of Trichomoniasis in three to six months, bulls carry the infection for life without showing any symptoms. With no medically approved cures available, detection and control of infected bulls is key to containing the disease. An official sample must be done by an accredited veterinarian who has been approved by the state. *Trichomoniasis testing is recommended during BSE exam along with submitting ear notch sample for BVD-PI test and securing 840 EID tag for bull.*
- **Trichomoniasis testing is highly recommended for non-virgin bulls during the BSE Exam.** All bulls purchased from out of state sources must meet import requirements as set forth by the State Veterinarian’s Office.

Seedstock breeders are encouraged to print current bull pedigree once true NCE EPDs (min. 0.15 accuracy) are posted on the breed association website, October 1, 2021, or soon after, in order to keep a copy for buyers. Updated pedigree should be printed once GE-EPDs are posted.

Producers are encouraged to purchase registered bulls from trusted seedstock breeders who provide buyers with complete reimbursement documentation including bull type, receipt, 840 EID tag, BSE, negative BVD-PI test results and pedigree with current EPDs, accuracies, genomic

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status and performance data. You may visit with your Veterinarian and Seedstock breeder about Trich testing.

Eligible beef breeds for the TAEP Genetics program must have a national breed performance testing program that participates in a National Cattle Evaluation (NCE) program recognized by the Beef Improvement Federation. Genomic Enhanced or True NCE EPDs must be calculated and printed from the most prominent breed association.

EPD & ACCURACY REQUIREMENTS

REQUIRED: A bull must meet or exceed EPD and Accuracy requirements in **each of 2** EPD groups (**Calving Ease & Growth**) for one of the following three bull types (Balanced, Calving Ease, or Terminal).

SUGGESTED: A suggested Milk EPD range may be considered with the Balanced & Calving Ease Bull Types. Optimal Milk EPD range may be a useful tool for producers in selecting functional replacement females with appropriate maintenance requirements consistent with standard production systems.

- The more selective range (15% - 85% for all breeds) encourages producer consideration for an optimal range of Milk EPD values in replacement females of the breeding herd. Producers may purchase bulls with Milk EPD values either above or below the “suggested” range if deemed appropriate for the needs and direction of their breeding program. Relationship decisions with trusted Seedstock breeders, Extension leaders, and Beef industry leaders, are encouraged within this updated 3-Tier Bull Type system, which allows for greater flexibility.

SUGGESTED: Producers are encouraged to consider Maternal Index values and discuss with their trusted seedstock decision influencers if keeping and developing replacement heifers. Producers may print the EPD Percentile Distribution Table for Non-Parent Bulls for the breed of bull that may be purchased.

- TAEP has printed the Maternal Index value for available breeds from the 50th percentile level as a convenience to producers who may be utilizing this index as a selection criteria in their breeding program. Maternal Index value table at the 50th percentile level is printed on page 10. Crossbred females may improve fertility, longevity and production through maternal heterosis and breed complementarity in commercial beef systems.

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BULL TYPES

Balanced	must meet 2 of 2 EPD groups (Calving Ease & Growth) <i>*Milk range & Maternal Index is suggested, if keeping replacement heifers</i>
Calving Ease	must meet 2 of 2 EPD groups (Calving Ease & Growth) <i>*Milk range & Maternal Index is suggested, if keeping replacement heifers</i>
Terminal	must meet 2 of 2 EPD groups (Calving Ease & Growth)

All bull types must have true NCE EPDs with minimum 0.15 accuracy for the Calving Ease (CE or CED) and Growth (WW or YW) groups. BW is only available to breeds that do not have a CE EPD. *Interim EPDs, pedigree estimates, pedigree index (ex. I, I+, P, P+ or 0.05 Accuracy), or parental averages **are not eligible** for reimbursement.*

**TAEP EPD and Accuracy Requirements for Balanced, Calving Ease & Terminal bulls are listed on the following pages.*

\$1,000 Max Reimbursement – Bulls with eligible true NCE EPDs with a minimum 0.15 accuracy for Calving Ease and Growth groups for one of the three eligible bull types.

- Bulls must have true NCE EPDs with a minimum 0.15 accuracy complete on breed association pedigree to be eligible for either 35% or 50% cost share reimbursement **up to \$1,000**.
- Breed association pedigree must be submitted with reimbursement request and include EPDs, accuracies, and have a printed date between October 1, 2021 and June 1, 2022.

\$1,600 Max Reimbursement – Bulls with eligible Genomic Enhanced EPDs for one of the three eligible bull types

- Genomic Enhanced EPD verification must be complete on breed association pedigree to be eligible for either 35% or 50% cost share reimbursement **up to \$1,600**.
- Breed association pedigree must be submitted with reimbursement request and include EPDs, accuracies, genomic verification, and have a printed date between October 1, 2021 and June 1, 2022.

Payment may be denied if individual bulls do not have true NCE EPDs with a minimum 0.15 accuracy calculated by their breed association by June 1, 2022.

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3 Bull Type Options – Balanced, Calving Ease, Terminal

BALANCED BULLS

For breeding a combination of mature cows and a few replacement heifers.

TAEP Balanced bull type sires are utilized in small herds where producers expect one bull to sire optimal performance & maternal (more growth than Calving Ease bulls) when bred to several mature cows while also maintaining adequate calving ease when bred to a few heifers.

CALVING EASE BULLS

For breeding replacement heifers.

TAEP Calving Ease bull type sires are utilized to improve direct calving ease when bred to heifers while maintaining acceptable growth and maternal traits.

TERMINAL BULLS

For breeding mature cows only.

TAEP Terminal bull type sires can be utilized by producers desiring to maximize performance (more growth than either Balanced or Calving Ease bulls) when bred to mature cows.

**Not recommended to breed to heifers.*

QUESTIONS

TAEP Hotline: 800-342-8206

Genetics Coordinator: Ryan Betzelberger

Phone: 615-837-5382

Email: livestock.genetics@tn.gov

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ANGUS	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum		Minimum			Minimum	Minimum	Maximum	
	CE	(Acc.)	WW	(Acc.)		YW	(Acc.)		
Balanced	5	(0.15)	53	(0.15)	or	81	(0.15)	20 to 31	
Calving Ease	9	(0.15)	46	(0.15)	or	78	(0.15)	20 to 31	
Terminal	0	(0.15)	60	(0.15)	or	101	(0.15)		

AKAUSHI	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	-2	(0.15)	42	(0.15)	or	77	(0.15)	27	to 29
Calving Ease	1	(0.15)	40	(0.15)	or	74	(0.15)	27	to 29
Terminal	-5	(0.15)	45	(0.15)	or	81	(0.15)		

BEEFMASTER	CALVING EASE - Required		GROWTH - Required				<i>Milk - Suggested</i>		
	Minimum		Minimum			Minimum	Maximum		
	CE	(Acc.)	WW	(Acc.)		YW	(Acc.)		
Balanced	3	(0.15)	17	(0.15)	or	33	(0.15)	6 to 12	
Calving Ease	5	(0.15)	15	(0.15)	or	31	(0.15)	6 to 12	
Terminal	1	(0.15)	27	(0.15)	or	48	(0.15)		

BRAHMAN	CALVING EASE - Required			GROWTH - Required					Milk - Suggested		
		Max.	Min.	Minimum			Minimum		Minimum	Maximum	
		BW	(Acc.)	WW	(Acc.)		YW	(Acc.)			
Balanced		1.4	(0.15)	12	(0.15)	or	19	(0.15)	3	to	9
Calving Ease		-1	(0.15)	10	(0.15)	or	17	(0.15)	3	to	9
Terminal		4.0	(0.15)	21	(0.15)	or	33	(0.15)			

BRANGUS (BLACK)	CALVING EASE - Required		GROWTH - Required				Milk - Suggested			
	Minimum		Minimum			Minimum	Minimum	Maximum		
	CE	(Acc.)	WW	(Acc.)	or	YW	(Acc.)			
Balanced	4	(0.15)	20	(0.15)	or	35	(0.15)	5	to	13
Calving Ease	6	(0.15)	18	(0.15)	or	33	(0.15)	5	to	13
Terminal	2	(0.15)	28	(0.15)	or	53	(0.15)			

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RED BRANGUS	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	4	(0.15)	16	(0.15)	or	21	(0.15)	5	to 10
Calving Ease	6	(0.15)	14	(0.15)	or	20	(0.15)	5	to 10
Terminal	2	(0.15)	21	(0.15)	or	32	(0.15)		

ULTRABLACK	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	4	(0.15)	27	(0.15)	or	51	(0.15)	5	to 12
Calving Ease	6	(0.15)	24	(0.15)	or	48	(0.15)	5	to 12
Terminal	2	(0.15)	36	(0.15)	or	71	(0.15)		

BRAUNVIEH	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	11	(0.15)	47	(0.15)	or	60	(0.15)	9	to 16
Calving Ease	14	(0.15)	43	(0.15)	or	55	(0.15)	9	to 16
Terminal	9	(0.15)	53	(0.15)	or	71	(0.15)		

CHAROLAIS	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	6	(0.15)	50	(0.15)	or	87	(0.15)	16	to 28
Calving Ease	11	(0.15)	49	(0.15)	or	85	(0.15)	16	to 28
Terminal	0	(0.15)	58	(0.15)	or	102	(0.15)		

CHIANINA/ CHIANGUS	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	8	(0.15)	44	(0.15)	or	68	(0.15)	11	to 18
Calving Ease	11	(0.15)	42	(0.15)	or	64	(0.15)	11	to 18
Terminal	5	(0.15)	53	(0.15)	or	81	(0.15)		

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GELBVIEWH	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE (Acc.)		Minimum WW (Acc.)	Minimum YW (Acc.)	Minimum	Maximum
Balanced	11	(0.15)	62 (0.15) or	87 (0.15)	17	to 25
Calving Ease	15	(0.15)	60 (0.15) or	83 (0.15)	17	to 25
Terminal	9	(0.15)	70 (0.15) or	102 (0.15)		

BALANCER	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE (Acc.)		Minimum WW (Acc.)	Minimum YW (Acc.)	Minimum	Maximum
Balanced	12	(0.15)	65 (0.15) or	95 (0.15)	16	to 24
Calving Ease	15	(0.15)	62 (0.15) or	91 (0.15)	16	to 24
Terminal	9	(0.15)	73 (0.15) or	112 (0.15)		

HEREFORD	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE (Acc.)		Minimum WW (Acc.)	Minimum YW (Acc.)	Minimum	Maximum
Balanced	0	(0.15)	50 (0.15) or	77 (0.15)	19	to 31
Calving Ease	8	(0.15)	47 (0.15) or	73 (0.15)	19	to 31
Terminal	-3	(0.15)	56 (0.15) or	90 (0.15)		

BLACK HEREFORD	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE (Acc.)		Minimum WW (Acc.)	Minimum YW (Acc.)	Minimum	Maximum
Balanced	0	(0.15)	48 (0.15) or	77 (0.15)	18	to 19
Calving Ease	3	(0.15)	47 (0.15) or	76 (0.15)	18	to 19
Terminal	-3	(0.15)	49 (0.15) or	79 (0.15)		

LIMOUSIN	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE (Acc.)		Minimum WW (Acc.)	Minimum YW (Acc.)	Minimum	Maximum
Balanced	11	(0.15)	61 (0.15) or	83 (0.15)	18	to 26
Calving Ease	16	(0.15)	56 (0.15) or	79 (0.15)	18	to 26
Terminal	7	(0.15)	69 (0.15) or	101 (0.15)		

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LIM-FLEX	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	Minimum	Maximum
Balanced	11	(0.15)	66 (0.15) or 97 (0.15)		17	to 25
Calving Ease	14	(0.15)	62 (0.15) or 94 (0.15)		17	to 25
Terminal	8	(0.15)	73 (0.15) or 113 (0.15)			

MAINE ANJOU	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	Minimum	Maximum
Balanced	8	(0.15)	40 (0.15) or 49 (0.15)		14	to 25
Calving Ease	12	(0.15)	37 (0.15) or 46 (0.15)		14	to 25
Terminal	0	(0.15)	46 (0.15) or 60 (0.15)			

MURRAY GREY	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	Minimum	Maximum
Balanced	-1	(0.15)	23 (0.15) or 36 (0.15)		2	to 7
Calving Ease	0	(0.15)	20 (0.15) or 32 (0.15)		2	to 7
Terminal	-2	(0.15)	30 (0.15) or 48 (0.15)			

RED ANGUS	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	Minimum	Maximum
Balanced	12	(0.15)	56 (0.15) or 80 (0.15)		21	to 29
Calving Ease	14	(0.15)	51 (0.15) or 78 (0.15)		21	to 29
Terminal	9	(0.15)	63 (0.15) or 102 (0.15)			

SALERS	CALVING EASE - Required		GROWTH - Required		Milk - Suggested	
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	Minimum	Maximum
Balanced	10	(0.15)	48 (0.15) or 63 (0.15)		9	to 22
Calving Ease	14	(0.15)	43 (0.15) or 60 (0.15)		9	to 22
Terminal	7	(0.15)	56 (0.15) or 81 (0.15)			

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SANTA GERTRUDIS	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Max. BW	Min. (Acc.)	Minimum WW (Acc.)		Minimum YW (Acc.)		Minimum	Maximum	
Balanced	-0.3	(0.15)	-5 (0.15)	or	-7 (0.15)		-3	to	4
Calving Ease	-0.9	(0.15)	-7 (0.15)	or	-8 (0.15)		-3	to	4
Terminal	1.3	(0.15)	1 (0.15)	or	2 (0.15)				

SENEPOL	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Max. BW	Min. (Acc.)	Minimum WW (Acc.)		Minimum YW (Acc.)		Minimum	Maximum	
Balanced	1.9	(0.15)	7 (0.15)	or	8 (0.15)		2	to	10
Calving Ease	-0.2	(0.15)	6 (0.15)	or	6 (0.15)		2	to	10
Terminal	4.2	(0.15)	14 (0.15)	or	15 (0.15)				

SHORTHORN	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE (Acc.)		Minimum WW (Acc.)		Minimum YW (Acc.)		Minimum	Maximum	
Balanced	10 (0.15)		41 (0.15)	or	61 (0.15)		19	to	27
Calving Ease	14 (0.15)		38 (0.15)	or	59 (0.15)		19	to	27
Terminal	5 (0.15)		47 (0.15)	or	74 (0.15)				

SIMMENTAL	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE (Acc.)		Minimum WW (Acc.)		Minimum YW (Acc.)		Minimum	Maximum	
Balanced	10 (0.15)		71 (0.15)	or	100 (0.15)		19	to	28
Calving Ease	14 (0.15)		67 (0.15)	or	97 (0.15)		19	to	28
Terminal	5 (0.15)		78 (0.15)	or	115 (0.15)				

HYBRID SIMMENTAL	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE (Acc.)		Minimum WW (Acc.)		Minimum YW (Acc.)		Minimum	Maximum	
Balanced	11 (0.15)		69 (0.15)	or	100 (0.15)		18	to	27
Calving Ease	14 (0.15)		64 (0.15)	or	97 (0.15)		18	to	27
Terminal	8 (0.15)		76 (0.15)	or	116 (0.15)				

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SOUTH DEVON	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	9	(0.15)	56	(0.15)	or	77	(0.15)	13	to 21
Calving Ease	13	(0.15)	52	(0.15)	or	74	(0.15)	13	to 21
Terminal	6	(0.15)	63	(0.15)	or	93	(0.15)		

TARENDAISE	CALVING EASE - Required		GROWTH - Required				Milk - Suggested		
	Minimum CE	(Acc.)	Minimum WW	(Acc.)	or	Minimum YW	(Acc.)	Minimum	Maximum
Balanced	0	(0.15)	-3	(0.15)	or	3	(0.15)	-2	to 4
Calving Ease	3	(0.15)	-5	(0.15)	or	1	(0.15)	-2	to 4
Terminal	-5	(0.15)	10	(0.15)	or	20	(0.15)		

Maternal Index value table is for educational purposes only. See p. 2.

Maternal Index Value at 50th Percentile by Breed (& CED from Balanced Bull Type)			
Breed	Calving Ease	Index Value	Index Name
Angus	5	63	\$M
Beefmaster	3	13	\$M
Brangus (Black)	4	0.5	Fertility
Ultrablack	4	1.1	Fertility
Gelbvieh	11	110	\$Cow
Balancer	12	101	\$Cow
Hereford	0	346	BMI
Red Angus	12	64	HerdBuilder
Shorthorn	10	114	BMI
Simmental	10	129	API
Hybrid Simmental	11	129	API

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TAEP: FY 2021-22 Cattle Genetics - Beef EPD & Acc Req - 3-Tier Bull Type - Examples

<u>Example:</u>	<u>Does this Angus bull qualify?</u>	<u>As which bull type?</u>
	CED = 9 (0.18 accuracy)	
	WW = 45 (0.21 accuracy)	
	YW = 79 (0.05 accuracy)	
	Milk = 37 - <i>suggested (not required)</i>	
<u>BALANCED Bull</u>	Must meet or exceed EPD requirements for: Calving ease and Growth	
	<i>Milk EPD range - Suggested (not required)</i>	
	Calving ease and Growth must have min. 0.15 accuracy	
	Calving Ease (CED)	acceptable greater than 5
	Calving ease group:	acceptable meets CE requirement
	** CED has accuracy value greater than 0.15 **	
	Weaning Weight (WW)	unacceptable lower than 53
	Yearling Weight (YW)	unacceptable lower than 81 / accuracy lower than 0.15
	Growth group:	unacceptable meets <i>neither</i> WW or YW requirements
	** Only WW has an accuracy value greater than 0.15 **	
	Milk	Milk above "suggested" 20-31 range
		Producer may visit with trusted Seedstock producer, Extension leader, or Beef industry leader about milk levels appropriate to their program.
	Milk EPD range	ok Milk is "suggested" (not required)
	This bull does <u>not</u> qualify as a "Balanced" bull: <u>Growth group is unacceptable</u>	

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<u>TERMINAL Bull</u>	Must meet or exceed EPD requirements for: Calving ease <i>and</i> Growth only			
	Calving ease and Growth must have min. 0.15 accuracy			
	Calving Ease (CED)	acceptable	greater than 0	
	Calving ease group:	acceptable	meets CE requirement	
	** CE has accuracy value greater than 0.15 **			
	Weaning Weight (WW)	unacceptable	lower than 60	
	Yearling Weight (YW)	unacceptable	lower than 101 / accuracy lower than 0.15	
	Growth group:	unacceptable	meets <i>neither</i> WW or YW requirements	
	** Only WW has an accuracy value greater than 0.15 **			
	Milk	<i>not required for Terminal bulls</i>		
	Milk EPD range	<i>"suggested" Milk EPD range for Balanced & Calving Ease bulls</i>		
	This bull does <u>not</u> qualify as a "Terminal" bull: <u>Growth group is unacceptable</u>			

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CALVING EASE Bull	Must meet or exceed EPD requirements for: Calving ease <i>and</i> Growth		
	<i>Milk EPD range - Suggested (not required)</i>		
	Calving ease and Growth must have min. 0.15 accuracy		
Calving Ease (CED)	acceptable	equals 9	
Calving ease group:	acceptable	meets CE requirement	
** CED has accuracy value greater than 0.15 **			
Weaning Weight (WW)	unacceptable	lower than 46	
Yearling Weight (YW)	acceptable	greater than 78	
	YW accuracy	unacceptable	lower than 0.15
Growth group:	unacceptable		
** Only WW has an accuracy value greater than 0.15 **			
If this bull has a 0.05 Accuracy for CED, WW and YW:			
This bull <u>does NOT qualify</u> as a TAEP bull.			
<i>If registered bull has YW performance and contemporary data from NCE: YW = 79 (0.20 acc)</i>			
Weaning Weight (WW)	unacceptable	lower than 46	
Yearling Weight (YW)	acceptable	greater than 78	
	YW accuracy	acceptable	YW meets EPD at acceptable accuracy
Growth group:	acceptable	meets YW requirement for both	
		EPD and accuracy	
Milk		Milk is above "suggested" 20-31 range	
		Producer may visit with trusted Seedstock producer,	
		Extension leader, or Beef industry leader about milk	
		levels appropriate to their program.	
Milk EPD range	ok	Milk is "suggested" (not required)	
This bull <u>does qualify</u> as a "Calving Ease" bull: Calving Ease & Growth groups are acceptable			
	Producer may consider Maintenance requirements of daughters as		
	Milk EPD is above "suggested" range.		
This bull would be <u>reimbursed up to a maximum of \$1,000.</u>			
<i>If reg. bull has Genomic Enhanced EPDs and YW performance and contemporary data from NCE: YW = 79 (0.35 acc)</i>			
	If this bull's <u>eligible EPDs</u> are <u>Genomic Enhanced</u>:		
This bull would be <u>reimbursed up to a maximum of \$1,600.</u>			

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TAEP: FY 2021/2022 Cattle Genetics Program - Minimum Dairy LNM or Index Requirements by Breed

To Qualify: A bull must meet or exceed the requirements in **1 of the 2** categories.

BREED		LNM	or	Index	Value
HOLSTEIN		308	or	TPI	1719
Red & White		308	or	TPI	1719
AYRSHIRE		223	or	PTI	83
BROWN SWISS		174	or	PPR	80
GUERNSEY		102	or	PTI	78
JERSEY		217	or	JPI	82
MILKING SHORTHORN		50			

Rev. September 11, 2021